

IN THE CLAIMS:

The text of all pending claims, (including withdrawn claims) is set forth below. Cancelled and not entered claims are indicated with claim number and status only. The claims as listed below show added text with underlining and deleted text with ~~strikethrough~~. The status of each claim is indicated with one of (original), (currently amended), (cancelled), (withdrawn), (new), (previously presented), or (not entered).

Please AMEND claims 1, 3, 44, and 45, as set forth below:

1. (Currently Amended) A method of managing metadata in a metadata transmission server, comprising:
  - generating a plurality of metadata fragment data by partitioning metadata to be transmitted based upon a predetermined semantic unit;
  - selecting a predetermined metadata fragment data from among the plurality of metadata fragment data;
  - generating metadata-related information using the selected metadata fragment data;
  - and
  - transmitting a container including the selected metadata fragment data and the metadata-related information with data format information indicating a type of the selected metadata fragment data.
2. (Original) The method of claim 1, wherein the selected metadata fragment data, the metadata-related information, and the data format information of the selected metadata fragment data are transmitted in a metadata container.
3. (Currently Amended) The method of claim 1, wherein the data format information indicates whether the selected metadata fragment data has a binary XML format or a text XML format, and each container includes metadata fragment data having only one of a binary XML format and a text XML format.
4. (Cancelled)
5. (Original) The method of claim 2, wherein a metadata authentication level flag specifying a metadata authentication level is further contained in the metadata container.

6. (Original) The method of claim 1, wherein the metadata-related information is metadata digest information obtained by substituting the selected metadata fragment data into a unidirectional function.

7. (Original) The method of claim 6, wherein the unidirectional function is a hash function.

8. (Original) The method of claim 2 further comprising:  
generating metadata authentication signature information using the metadata-related information and a first encryption key; and  
inserting the metadata authentication signature information in the metadata container containing the selected metadata fragment data.

9. (Original) The method of claim 8, wherein the metadata authentication signature information is obtained by substituting the metadata-related information and the first encryption key into a unidirectional function.

10. (Original) The method of claim 9, further comprising:  
encrypting the first encryption key using a second encryption key; and  
inserting the encrypted first encryption key into the metadata container containing the selected metadata fragment data.

11. (Original) The method of claim 2, wherein the plurality of metadata fragment data and corresponding metadata-related information are inserted into the metadata container, and each metadata fragment data and the corresponding metadata-related information are connected to each other by pointer information.

12. (Original) The method of claim 8, wherein the plurality of metadata fragment data and corresponding metadata-related information and metadata authentication signature information are inserted into the metadata container, and each metadata fragment data and the corresponding metadata-related information and metadata authentication signature information are connected to one another by pointer information.

13-43. (Cancelled)

44. (Currently Amended) A method of managing metadata in a metadata transmission server, the method comprising:

- generating a plurality of metadata fragment data by partitioning metadata to be transmitted based upon a predetermined semantic unit having a predetermined meaning;
- selecting a predetermined metadata fragment data from among the plurality of metadata fragment data;
- generating metadata digest information by substituting the selected metadata fragment data into a unidirectional function; and
- transmitting a container including the selected metadata fragment data and the metadata digest information with data format information indicating a type of the selected metadata fragment data.

45. (Currently Amended) A method of managing metadata in a metadata transmission server, comprising:

- generating a plurality of metadata fragment data by partitioning metadata to be transmitted based upon a predetermined semantic unit having a predetermined meaning;
- selecting a predetermined metadata fragment data from among the plurality of metadata fragment data;
- generating metadata container-level authentication message digest information by substituting the selected metadata fragment data into a unidirectional function; and
- transmitting a container including a metadata container-level authentication container including the selected metadata fragment data and the metadata container-level authentication message digest information with data format information indicating a type of the selected metadata fragment data.